# **AUTO MAKERS PLAN** TO BEGIN BUILDING AEROPLANES SOON

Some Now Are Actively Engaged in Manufacture of **Aviation Motors.** 

OTHER AERO NEWS TOLD

Capt. C. C. Culver Sends Wireless Message 20 miles From 5,000-Foot Altitude.

If all reports are true, some automobile manufacturers are giving considerable thought to aviation, and a few are actively engaged in building aviation

Farmers are of a class in the best position to make use of flying machines. Contrary to general opinion, flying in a well-built aeroplane is safe. Statistics show but few accidents, and these are, for the most part, caused by care-lessness or lack of knowledge of the

The modern aeroplane has a factor of safety of about eight, which, roughly translated, means that it is about eight

translated, means that it is about eight times as strong as necessary.

Flying machines are today beyond the reach of all but a favored few, but so, too, were motor cars a few years back. There seems to be no logical reason why the aeroplane should not follow in the footsteps of its land brother, the automobile, which, in ten short years, has become the servant of the masses, not just the toy of the rich. What has brought about this change? Simply building automobiles in quantities. Today a better or can be bought for \$1,000 than \$2,000 would buy five years ago.

Who will be the first to adopt these principles to aeroplanes? He who does will find himself established as the "Ford" of the flying world.

Thomas F. Ryan, the New York financler, has offered several hundred neres of his big estate near Charlottesville. Va., to the Government to be used as a remount depot for aviation field or stock raising for the army. It will probably be used by the aviation corps, however, pending the report of Secretary Baker, who recently visited the estate, and will submit it to Major General Scott, chief

Sending a radio message twenty miles from a military aeroplane flying at an altitude of 5,000 feet was the schlevement recorded by Capt. C. C. Cul-S. A., aeronautic radio expert attached to the signal corps training school at San Diego, it was announced

today.

By arrangement with Dr. R. O. Shel By arrangement with Dr. R. O. Shelton, an amateur wireless enthusiast, Captain Culver sent his message from an aeroplane piloted by Sergt. William Ocker, of the army aviation school. Dr. Shelton heard each dot and dush distinctly and was convinced he could have kept in communication with Captain Culver at a distance of seventy-five miles. The instrument used was a modification of the aeroplane radio set used by the French flying corps. Experiments in receiving messages while in fight will be made soon by Captain Culver.

Harry Witts and Archie Crost, two recent graduates of the Curtiss school, flew from New Haven to Bay Shore on July 7. They traveled about one hundred miles and made the trip in little more than an hour and a half, attaining an altitude of 8,000 feet.

Aerial Age has got to quit picking on a famous aeronaut. Discussing the Fourth of July meet in Asburn, Ill., the Age apologizes for Miss Catherine's absence with "she had dates in Canada on both 3d and 4th."

Huddy on Automobiles.

A fourth edition of "Huddy on Automobiles" has been issued by Matthew Bender & Company, law book publishers of Albany, N. Y. This new 19th edition is a complete and comprehensive treatise on the law relating to automobiles, completely revised and enlarged, and brought down to date. New chapters have been added treating the "Jitney" and automobile insurance.

Stoddard County, Missouri, is considering the issuance of \$1,000,000 in bonds for constructing a system of improved reads. Both Clay and Stoddard counties have been stirred by the example of St. Louis county which, a short time ago, voted three million dollars of good roads bonds. St. Louis county was followed by Wayne county with a \$500,000 issue.

### SPEEDY DELIVERY TRUCK



The new Reo truck of O. J. De Moll is not merely a "light feeder" gasolene, but is unusually spare in tire wear.

# Stop, Look, and Listen! Is Best Rule, Radiator

Motorists Who Denounce Children's Carelessness in City Streets Often Equally Irresponsible " in Country Far From "Cop."

By MONTE W. SOHN.

And while he stormed, insanely

threatened to "drive through your gates." a limited train hurtled by from the opposite direction. It was traveling a mile-a-minute speed.

There is nothing much to say.

Safety Up to Driver.

man, no matter how great the pro-

visions for the safety of motorists

on the part of the railroads, a con-

siderable part of his safety is up

to the driver of an automobile.

All railroads are not as active in

the campaign for safety as the Den-

ver and Rio Grande. But none of

them is indifferent, and most of

them are doing something to eliminate the danger as far as possible

Grade-crossing accidents are ex-

pensive. They cost the railroads a

great deal of money. They cost

many lives of motorists. And they hurt the splendid game of motoring If the gateman on this Philadel-

phia trip had been less a railroad

man, he might have been less cau-tious. He might have raised his gates—taken a chance—and have spiked half a dozen lives into

Stop, Look ,and Listen!

no chance too great to take, if you

will, but consider a few other things

will, but consider a few other things
first. Consider the safety of the
party you're driving, consider the
engineers, guided only by the semaphore, and consider those personally
interested or dependent on YOU.

It is "old stuff," of course.
But when you go out on the road
again have a heart!

Stop, look, and listen!

The Times' champ cartoonist chooses to depict the Nationals as an automobile. The metaphor is good. Early in the season they howeved between first and third. Now Griff doesn't seem to be able to get them out of reverse.

A new story from Detroit says of Hugh Chalmers' field day for his 5,000 employes; "Among the many events on the program are: Prize dancing contest, ladies' comedy race, pie-eating contest, egg-race for girls, three-legged races, fat men's race, shoc and potato races and tug of war."

war."
The story concludes "To provide for any need of medical attention a staff of doctors and nurses will have a special tent \* \* \*\*\*

The July Firestone tells of Jake Hammon, the shipping room foreman having an epidemic of sickness at his home. "We know," adds the Firestone reporter, "that he would just as soon be at the rim plant."

It must be pleasant at the rim plant.

Motorists who read this, consider

on their part.

No matter how cautious the gate-

A prominent railroad of the West sent us a circular similar to one which is being sent broadcast among whose scheme is plain from big letters at the top. They read! no chances at all! STOP, LOOK, LISTEN."

There is a summary of figures showing the number of casualties resulting from indifference on the part of motor drivers, casualties which sprang from failure to stop

or look or listen. But most compelling to us is simple rentence lost in the body of the circular. That made us think a good deal. "The campaign of education being carried on by the Rio Grande is worthy of emulation by other rail lines."

"The campaign of education!" "The campaign of education!"

Last week, or the week previous,
The Radiator, following an extensive investigation, lamented the
growing recklessness and irresponsibility of children in the streets of
Washington. Now comes a statement, most gravely made by a powerful railroad system, announcement
a "campaign of education" for
bwnups. A campaign for the
safety of motorists themselves,
among them there were many
casualties in a year just ended.

"Cute Loose" Quitside of City.

"Cuts Loose" Outside of City. Which brings home a regrettable fact that, careful as the average motorist is, in the city limits, once beyond them the temptation to "step on her" is greater than his good

on her." is greater than his good judgment, and he is frequently as irresponsible and reckless as a child.

The Denver and Rio Grande railroad has turned over a few pages in our memory. We recall a Sunday motor trib to Philadelphia recently with a Washingtonian who is an enthusiastic motorist. He has a big car capable of great things. On the way there was a blowout and a little delay in changing tires.

There was a juncheon engagement in Philadelphia to be kept.

After the new tire was in place, he "stepped on her."

He is a skillful driver, and the car is as reliable as a motor car may be.

be.

He thought much on the question of being late for that luncheon in Philadelphia. It was important, in

a social way.

But there came a grade crossing.

But there came a grade crossing. But there came a grade crossing. The gates were down and a warning beil shrilled its caution. A freight train was pulling scross the way. It was a long train. It took probably five minutes to pass. During fnose five minutes the host fretted behind the wheel like a man possessed. There were no women in the party, so it does not matter that he swore a great deal.

The last gondola and the caboose of the train cleared at last. Our host started his car, slowly, very slowly, anticipating the raising of the gates. They did not raise. The bell continued its clamor. He stopped the car and cursed the stupidity of the gateman. He became hysterical. We have all seen spoiled children, wilful and unmanageable. He was like that. He would not be comforted.

Two minutes passed. He grew purple with rage.

Rates Recommended By Engineers for Various Weights Should Be Followed.

By J. J. HAAS.

Premature failure of many trucks can undoubtedly be traced to overspeed. A to drive faster than a fixed speed. At times when more power is required, there may be some disadvantages to governors that regulate the gasolene supply, and it may be on this account that they are occasionally removed. In order to insure the very best results, the truck manufacturer should be consulted with reference to the speed at which each model of truck should be driven. Attention to this matter will not only be conducive to greater efficiency from the truck, but from the tires as well. The normal speed rates recommended by engineers as best suited to weights and gearing of trucks of various capacities is as collows:

Damage Follows Excess.

Depreciation, loss of time, and cost of maintenance can be greatly reduced by operating trucks at speeds consistent with the weight and general construction. At times, it may seem to be an advantage to make quick trips, but this is to be discouraged; the immediate damage will not be noticeable, but

may develop later.

Springs designed for a specific load will not be flexible enough to absorb the quicker road vibrations when the truck is driven at excessive speed. Under such circumstances, the various parts of the truck, particularly the front and rear axies, receive more severe shocks and are liable to heat, harden, and crystallize.

Excessive speed does not necessarily

Excessive speed does not necessarily have reference to speed above that recommended for the truck, for example, the condition of the streets and roads may be such that the normal speed is un-

advisable. It certainly is bad practice to drive a truck over rough pavements at speeds that cause the wheels to continually bounce free from the ground. The tendency of rear wheels is to revolve faster when losing traction and free from the roadway. When the weight of the truck, added to the tremendous kick of the spring rebound, forces the wheel back to the road surface, it receives unusual abrasion and the tread rubber wears off quickly, the effect being nearly the same quickly, the effect being nearly the same Suicide Certificate

Very Hard on Tires.

Under normal conditions, the wave the tread rubber of the tire ahead of that part in contact with the road will os overcome, to a certain extent, by the reactive or "snap back" qualities of the stock, but when driven at excessive speed, this wave naturally passes around the tire more quickly and the wave lengths become shorter and more localized; the rapid distortion and flexing of the tread rubber creates heat with and life of the rubber tissues.

Excessive heat in solid tires makes the rubber brittle and short in its elastic properties the effects are similar to the steel parts of truck, when heated and crystallized from vibration.

The performance of a truck is ultimately judged by the amount invested, cost of maintenance, dependableness and length of service. Drivers should be in the control of the cost of the cost

length of service. Drivers should be instructed and required to give reasonable care and attention to the truck and the proper operating speeds.

Garage Guests' Cars Free.

An agreeable surprise awaits motor tourists who stop overnight at the Hoycroft Inn, East Aurora, N. Y., home of the Roycrofters and made famous by the late Elbert Hubbard. Not only will they find an excellent hostelry, but a fine, modern garage, maintained in connection with the hotel, where they may garage their cars without charge, and obtain needed supplies at the minimum of cost. 

## **CLARK NAMES FIVE** MANY GOOD TRUCKS FOR RAILROAD PROBE

Investigation of Transportation Problem of Country to Begin in Few Weeks.

Speaker Clark has named the five House members who will join with an equal number of Senators and conducan investigation of the railroad transportation problem in this country.

The investigation, one of the most important ever undertaken by Congress, will begin in a few weeks, and will touch every phase of the railroad in-dustry, interestate commerce legislation. and the relations between shipper and common carrier.

Chairman Adamson, of the House Committee on Interstate and Foreign Commerce, heads the investigators of the lower body.

The remaining members of the committee appointed on the special investi-gating board are Congressmen Sims of Tennessee, Cullop of Indiana, 88ch of Wisconsin, and Hamilton of Michigan. The transportation inquiry was an Administration proposal, and was sug-gested by the President in his annual message last December.

### After 37 Years Wife Sues for Separation

SAN FRANCISCO, July 22.-After thirty-seven years as the wife of Died-rich Dangers, retired wholesale produce man, Mrs. Hermine Dangers has filed suit for separate maintenance. asks \$400 a month.

The complaint charges Dangers with cruelty. Mrs. Dangers left her home Monday, she told her attorney, because since his retirement from business her nusband has become miserly. She aleges in her complaint that during their married life they have amaseed \$150,600 in community property. Mrs. Dangers does not ask for a divorce decree.

## Other Animals Scarcer

PARIS, July 22.-A census of farm animals in France up to July 1, made by the Agricultureal Department, shows that cattle generally have increased, compared with a year ago, while the number of sheep and hogs has dimin-ished appreciably, which explains the continued high price of mutton and

pork.
A comparison between 1916 and 1915 shows: Cattle, 12,724,000, against 12,287,-000; Sheep, 12,078,200, against 13,483,000; hogs, 4,448,000, against 5,491,000; horacs, 2,217,000, against 2,227,000; mules, 479,500, against 484,500.

## Issued by Coroner

Coroner Nevitt has issued a certificate of suicide in the case of John H. Robinof suicide in the case of John H. Robinson. fffty, who was found unconscious in his bedrom at 20% E street northeast yesterday afternoon, believed to be suffering from carbolic acid poisoning. Robinson died en route to Casualty Hospital. He was found by a niece, Miss Gladys Robinson, Robinson was employed by the Washington Gas Light Company.

NEW YORK, July E-Charged wen petiti larceny in the alleged theft of robes at \$10, which had been wrapped for parcel post and placed on a mail box at Fifth Avenue and Twenty-ninth stook avenue, the Bronx, told Magis trate Corrigan in men's night court last night that he saw some young men steal the package and and that he took them away and started foward the postoffice to see that the ropes got off.
"How about the stamps that were
found in your pocket?" asked the magistrate.
"I took them off and put them in my pocket to keep the wind from blowing them away," responded the youth.
He was held for special sessions in 18000 ball.

To Play Golf Finals.

DEL MONTE, Cal., July 2.—Douglas Grant and Heinrich Schmidt, both of California, clash today in the finals of the western golf champtonship.

## BOY SAVED STAMPS, HERMIT EVE VEILED WITH SECRECY ONLY

VALPARAISO, Ind., July 22.-Some of the bolder residents of Porter county today planned to walk right up to the woodland cot of Valparaiso's Hermit Eve, and ask her who is she.

Fishermen who reported having seen the mysterious woman bathing in Lake Michigan clad only in nature's garments did not have the heart to follow her when she scampered into the sand

The woman has fived here for some time, but it was not noticed until re-cently that she bathed twice daily in the lake.

The modern Eve has succeeded in throwing about herself a veil of secrecy if little else.



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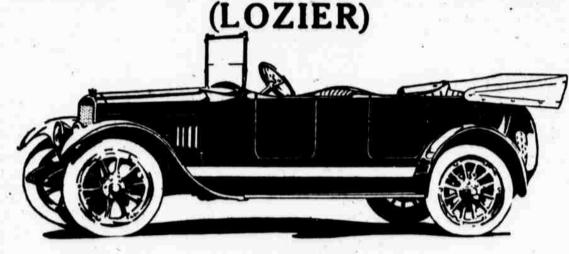
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